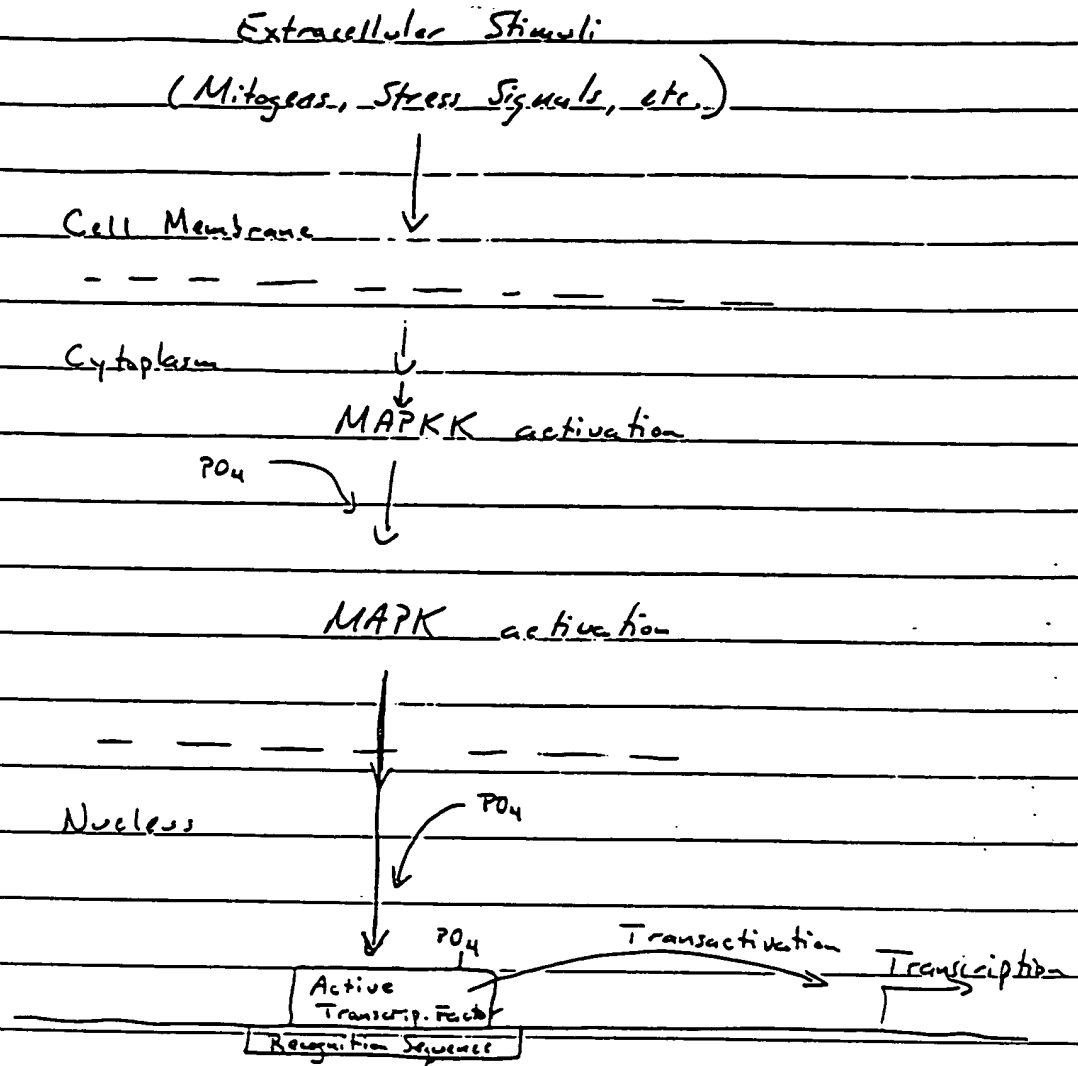


Figure



00180-05525960

Main Spring Pathway - Specific Signal Transduction

Transducer

DBD: Pathway Specific AD -

Reporter Plasmid

5x DBD - Reporter Gene -

Gene of Interest Plasmid  
Promoter - Gene of Interest

Transfected Cells

Gene Product of Interest

Trans -

activation

Reporter Gene

5x DBD  
Regulatory Site

DBD AD

Fig 2

09637550.081.100

Common

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Reporter Construct (w/ linked DBD element)

Screen for clones with low background of Reporter activity and strong response to D3D-bearing activator(s)

Stably transfect with fusion  
transactivator plasmid

Screen for clones with strong response to pathway-specific upstream activator(s)

"Pathway-Specific Stable Reporter Cell Line"

#### 4.1.1. pFR-Luc Plasmid



Fig. 4

#### Sequence of GAL4 Binding Element in the pFR-Luc Plasmid

GT CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG  
 AG CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG  
 AG CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG  
 TATATATGGATCCCCGGGT AC CGAGCTCGAATTC--  
 --CAGCTTGGCATTCCGGTACTGTTGGTAAATG--Luciferase

#### 4.1.2. Fusion Transactivator Plasmids

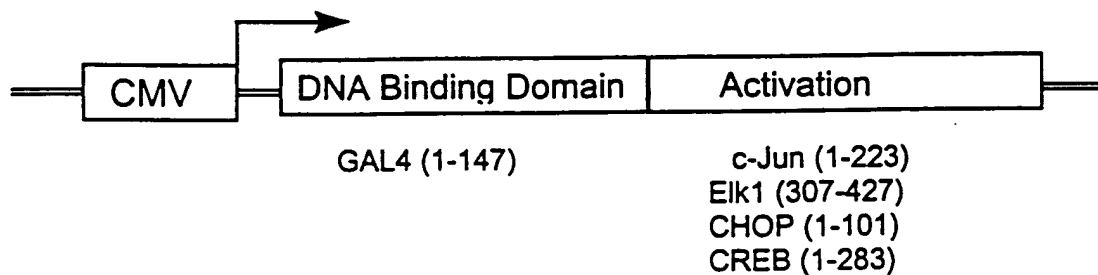


Figure 5

#### 4.1.3. Control Plasmids

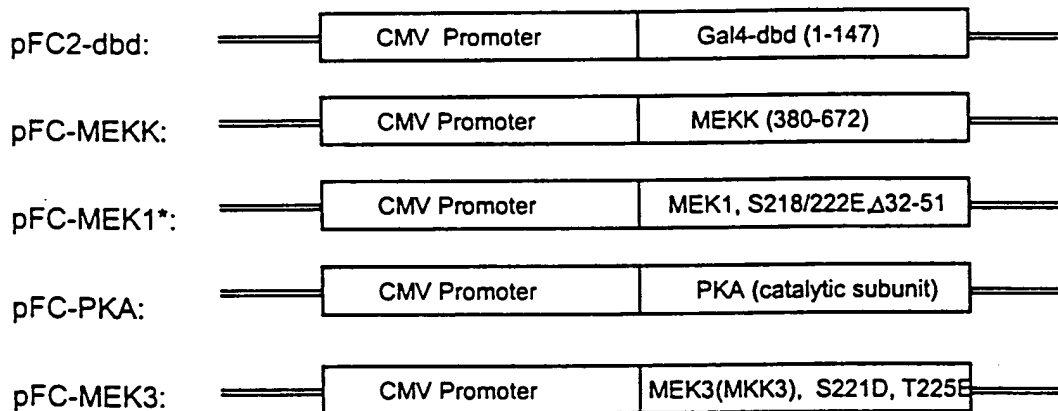


Figure 7

will tailor  
to each application

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#### 4.1.4. pFA-CMV Plasmid

##### pFA-CMV Plasmid

BamHI | SrfI | SmaI | EcoRI | XbaI | HindIII | PstI | SacI | KpnI | BglII  
 GTA TCG CCG GGA TCC GCC CGG GCT GGA ATT CTA GAA GCT TCT GCA GAG CTC GGT ACC AGA TCT TGA ATA AGT AG  
 V S P G S G R A G I L E A S A E L G T R S \* \* \*

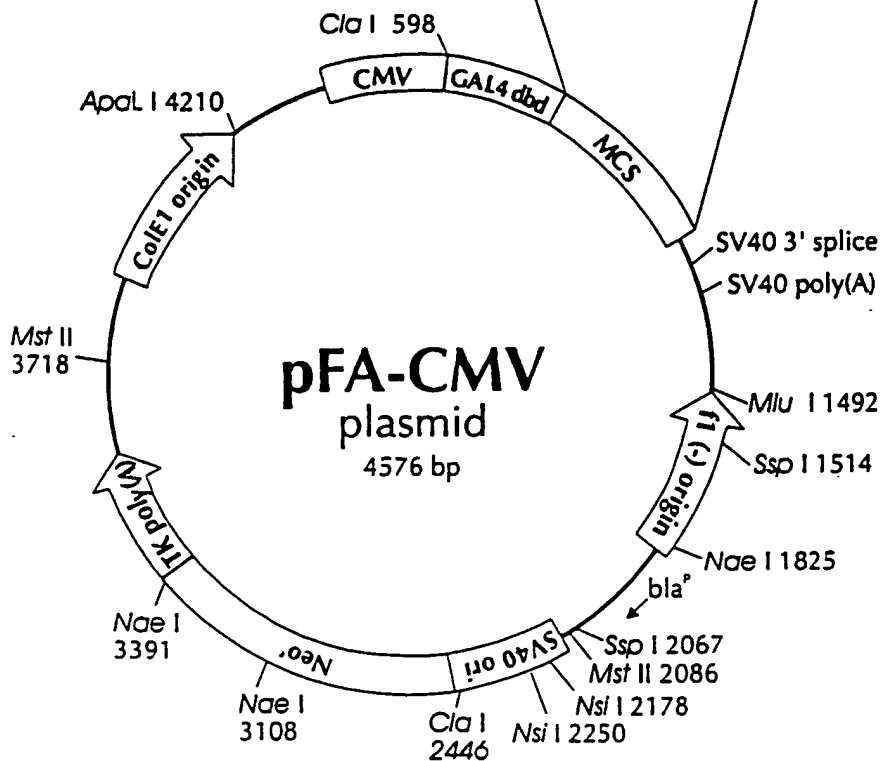


Figure 6

#### 4.2. Preparation of medium and reagents

##### Luciferase Assay Reagent (1×)

40.0 mM tricine (pH 7.8)  
 0.5 mM ATP  
 10 mM MgSO<sub>4</sub>  
 0.5 mM EDTA  
 10.0 mM DTT  
 0.5 mM coenzyme A  
 0.5 mM luciferin

##### Cell Lysis Buffer (5×)

40 mM tricine (pH 7.8)  
 50 mM NaCl  
 2 mM EDTA  
 1 mM MgSO<sub>4</sub>  
 5 mM DTT  
 1% Triton® X-100

00110 0552E950

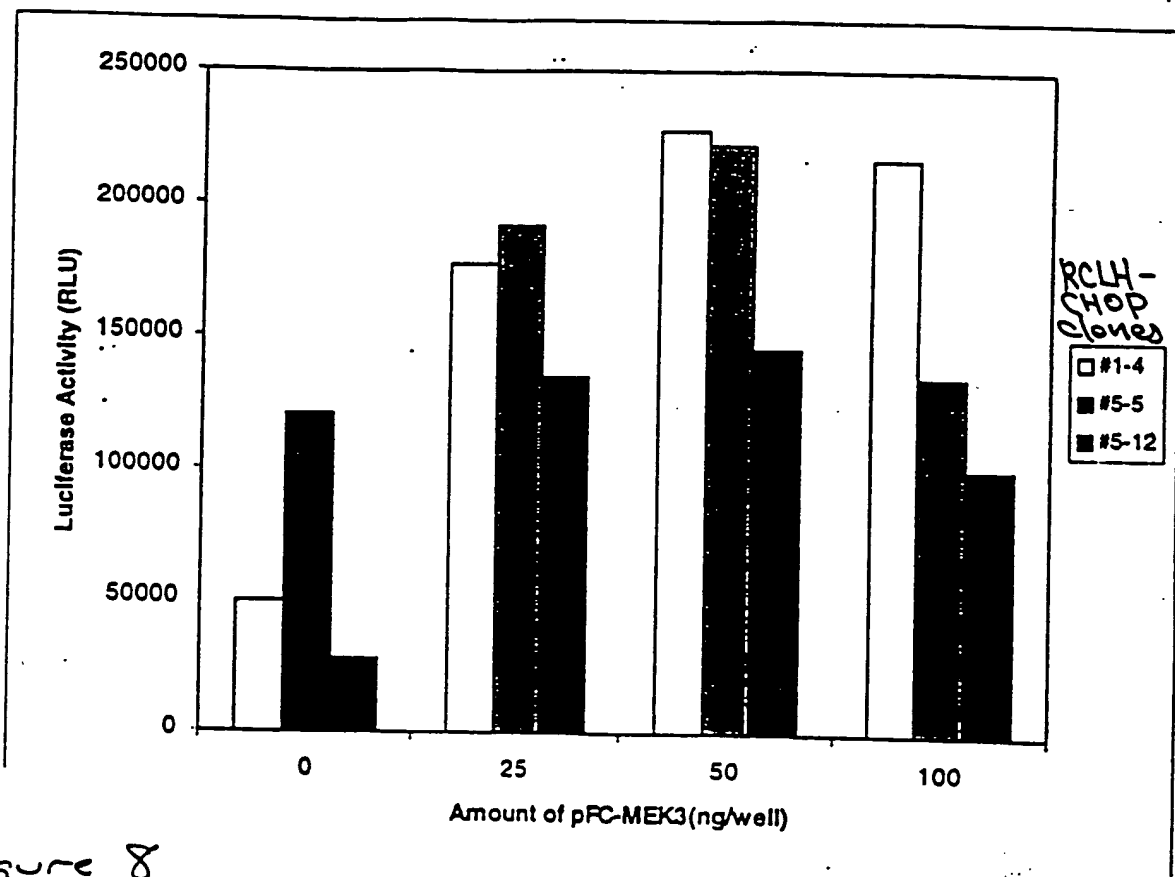


Figure 8

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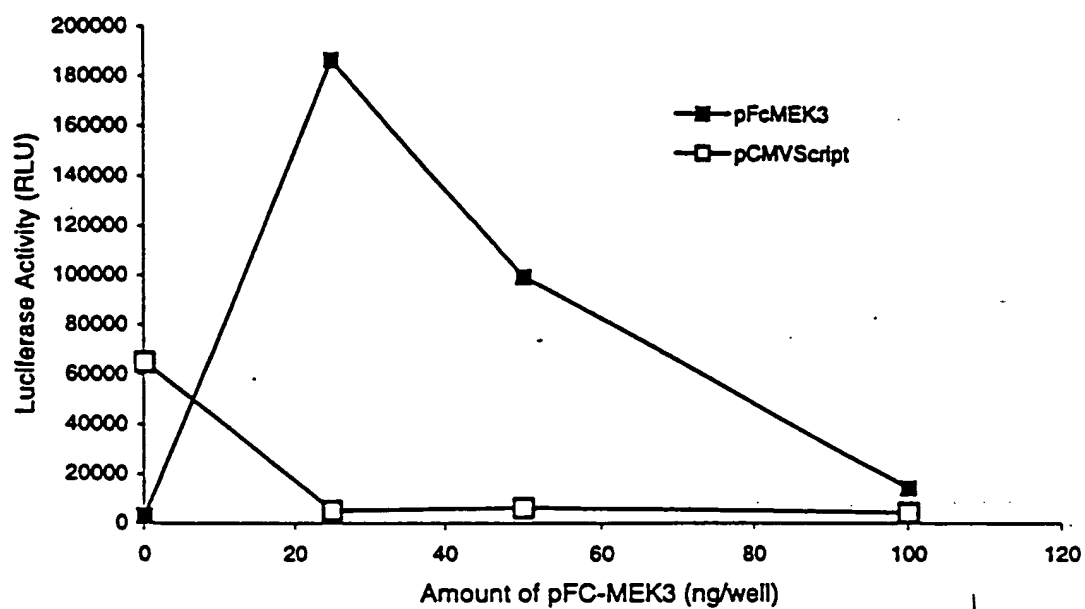


Figure 9

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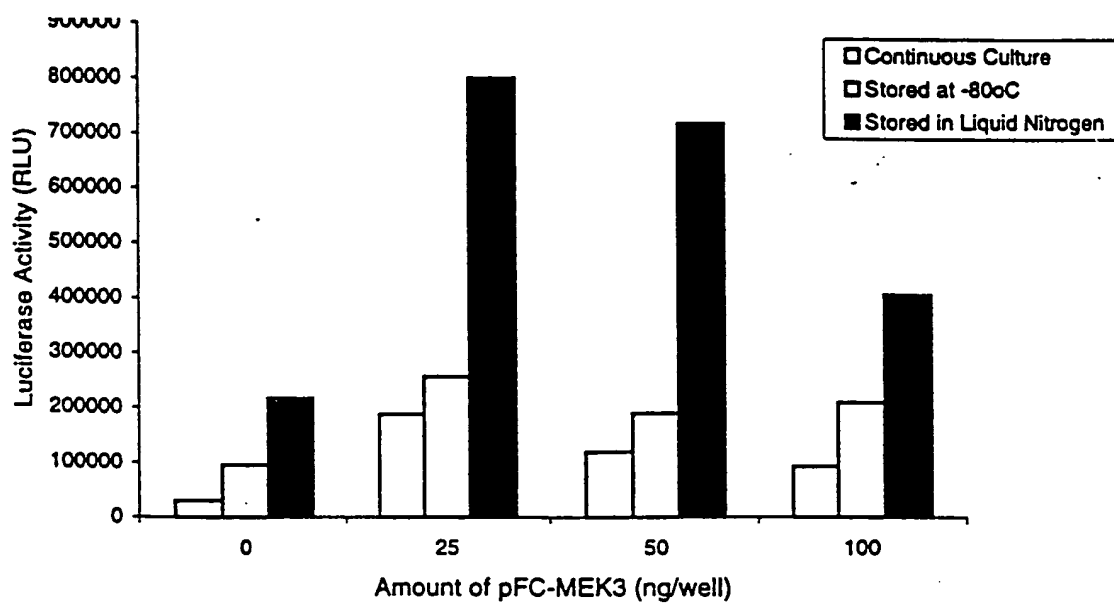


Figure 10